

PATENT ABSTRACTS OF JAPAN

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(71)Applicant : NORTEL NETWORKS LTD

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(54) BASE STATION FOR CELLULAR NETWORK

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a base station for a 60-degree sector transmission sector reception cellular network having N=3 frequency assignment where operating channel frequencies are grouped into eighteen frequency groups.

SOLUTION: A cell position for the N=3 frequency assignment for the 60-degree sector transmission sector reception(STSR) is decided by grouping operating channels into eighteen frequency groups. The frequency is assigned according to an odd/even number circulating distribution of channels, three channels are separated between sectors in each cell and eight channels are separated among cells. Thus, the sectors can sufficiently be separated and the adjacent channel C/I performance can be enhanced over the entire network. The N=3 frequency assignment method can increase the channel capacity by about 38% for the AMPS and about 114% for the TDMA-3.

